ABSTRACT

A method and system for displaying a data set of infinite extent on a display means of finite dimensions, and for providing navigation and magnification of the data set. The system comprises a control unit that receives a data set that is too large to display on a display of finite dimensions. The control unit maps at least a displayable portion of data points contained in the data set onto the display by applying a mathematical equation comprising a nonlinear and continuous mathematical function having a finite range and at least one independent variable of infinite domain. The displayable portion of the data points is displayable on the display and is determined by selecting one of the data points in the data set to correspond to a reference position on the display. The data set is traversed on the display by changing the selected data point that corresponds to the reference position.